



Autonomous Robots Autonomous Robots

Frank L. Lewis, Shuzhi Sam Ge



Autonomous Robots Autonomous Robots:

Autonomous Robots George A. Bekey, 2005-05-20 An introduction to the science and practice of autonomous robots that reviews over 300 current systems and examines the underlying technology Autonomous robots are intelligent machines capable of performing tasks in the world by themselves without explicit human control Examples range from autonomous helicopters to Roomba the robot vacuum cleaner In this book George Bekey offers an introduction to the science and practice of autonomous robots that can be used both in the classroom and as a reference for industry professionals He surveys the hardware implementations of more than 300 current systems reviews some of their application areas and examines the underlying technology including control architectures learning manipulation grasping navigation and mapping Living systems can be considered the prototypes of autonomous systems and Bekey explores the biological inspiration that forms the basis of many recent developments in robotics He also discusses robot control issues and the design of control architectures After an overview of the field that introduces some of its fundamental concepts the book presents background material on hardware control from both biological and engineering perspectives software architecture and robot intelligence It then examines a broad range of implementations and applications including locomotion wheeled legged flying swimming and crawling robots manipulation both arms and hands localization navigation and mapping The many case studies and specific applications include robots built for research industry and the military among them underwater robotic vehicles walking machines with four six and eight legs and the famous humanoid robots Cog Kismet ASIMO and QRIO The book concludes with reflections on the future of robotics the potential benefits as well as the possible dangers that may arise from large numbers of increasingly intelligent and autonomous robots

Autonomous Mobile Robots Frank L. Lewis, Shuzhi Sam Ge, 2018-10-03 It has long been the goal of engineers to develop tools that enhance our ability to do work increase our quality of life or perform tasks that are either beyond our ability too hazardous or too tedious to be left to human efforts Autonomous mobile robots are the culmination of decades of research and development and their potential is seemingly unlimited Roadmap to the Future Serving as the first comprehensive reference on this interdisciplinary technology Autonomous Mobile Robots Sensing Control Decision Making and Applications authoritatively addresses the theoretical technical and practical aspects of the field The book examines in detail the key components that form an autonomous mobile robot from sensors and sensor fusion to modeling and control map building and path planning and decision making and autonomy and to the final integration of these components for diversified applications Trusted Guidance A duo of accomplished experts leads a team of renowned international researchers and professionals who provide detailed technical reviews and the latest solutions to a variety of important problems They share hard won insight into the practical implementation and integration issues involved in developing autonomous and open robotic systems along with in depth examples current and future applications and extensive illustrations For anyone involved in researching designing or deploying autonomous robotic systems Autonomous

Mobile Robots is the perfect resource Introduction to Autonomous Robots Nikolaus Correll,Bradley Hayes,Christoffer Heckman,Alessandro Roncone,2022-12-20 A comprehensive introduction to the field of autonomous robotics aimed at upper level undergraduates and offering additional online resources Textbooks that provide a broad algorithmic perspective on the mechanics and dynamics of robots almost unfailingly serve students at the graduate level Introduction to Autonomous Robots offers a much needed resource for teaching third and fourth year undergraduates the computational fundamentals behind the design and control of autonomous robots The authors use a class tested and accessible approach to present progressive step by step development concepts alongside a wide range of real world examples and fundamental concepts in mechanisms sensing and actuation computation and uncertainty Throughout the authors balance the impact of hardware mechanism sensor actuator and software algorithms in teaching robot autonomy Features Rigorous and tested in the classroom Written for engineering and computer science undergraduates with a sophomore level understanding of linear algebra probability theory trigonometry and statistics QR codes in the text guide readers to online lecture videos and animations Topics include basic concepts in robotic mechanisms like locomotion and grasping plus the resulting forces operation principles of sensors and actuators basic algorithms for vision and feature detection an introduction to artificial neural networks including convolutional and recurrent variants Extensive appendices focus on project based curricula pertinent areas of mathematics backpropagation writing a research paper and other topics A growing library of exercises in an open source platform independent simulation Webots The Path to Autonomous Robots Gaurav Sukhatme,2008-12-18 The principal chapters of this book form a collection of technical articles spanning many areas of research in robotics these are followed by a set of short reminiscences and tributes written by former students of Professor George A Bekey Professor Bekey a pioneer in robotics retired from the University of Southern California USC in 2002 after serving on its faculty for forty years He maintains an association with USC as University Professor Emeritus Professor Bekey turned 80 in June 2008 this is his Festschrift As one of Professor Bekey's former students it has been my privilege to know him for many years This book represents the collective warm feelings of his former students who remember their association with him in the fondest terms Part I of this book is composed of technical chapters representing threads of active robotics research knitted loosely together In many cases the themes of the chapters have their origins in the work the authors did when they were graduate students with Professor Bekey These chapters are written for the reader interested in a sampling of modern research in Autonomous Robots It is my hope that for the serious reader these chapters will serve as invitations to explore the field via further reading and research Designing Autonomous Mobile Robots John M. Holland,2004-01-24 Designing Autonomous Mobile Robots introduces the reader to the fundamental concepts of this complex field The author addresses all the pertinent topics of the electronic hardware and software of mobile robot design with particular emphasis on the more difficult problems of control navigation and sensor interfacing Covering topics such as advanced sensor fusion control systems for a wide array of application

sensors and instrumentation and fuzzy logic applications this volume is essential reading for engineers undertaking robotics projects as well as undergraduate and graduate students studying robotic engineering artificial intelligence and cognitive science Its state of the art treatment of core concepts in mobile robotics helps and challenges readers in exploring new avenues in an exciting field Authored by a well known pioneer of mobile robotics Learn how to approach the design of and complex control system with confidence *Autonomous Robots* Farbod Fahimi,2008-10-25 It is at least two decades since the conventional robotic manipulators have become a common manufacturing tool for different industries from automotive to pharmaceutical The proven benefits of utilizing robotic manipulators for manufacturing in different industries motivated scientists and researchers to try to extend the applications of robots to many other areas by inventing several new types of robots other than conventional manipulators The new types of robots can be categorized in two groups redundant and hyper redundant manipulators and mobile ground marine and aerial robots These groups of robots known as advanced robots have more freedom for their mobility which allows them to do tasks that the conventional manipulators cannot do Engineers have taken advantage of the extra mobility of the advanced robots to make them work in constrained environments ranging from limited joint motions for redundant or hyper redundant manipulators to obstacles in the way of mobile ground marine and aerial robots Since these constraints usually depend on the work environment they are variable Engineers have had to invent methods to allow the robots to deal with a variety of constraints automatically A robot that is equipped with those methods is called an Autonomous Robot *Autonomous Robots Kinematics Path Planning and Control* covers the kinematics and dynamic modeling analysis of Autonomous Robots as well as the methods suitable for their control The text is suitable for mechanical and electrical engineers who want to familiarize themselves with methods of modeling analysis control that have been proven efficient through research *Plan-Based Control of Robotic Agents* Michael Beetz,2002-12-13 Robotic agents such as autonomous office couriers or robot tourguides must be both reliable and efficient Thus they have to flexibly interleave their tasks exploit opportunities quickly plan their course of action and if necessary revise their intended activities This book makes three major contributions to improving the capabilities of robotic agents first a plan representation method is introduced which allows for specifying flexible and reliable behavior second probabilistic hybrid action models are presented as a realistic causal model for predicting the behavior generated by modern concurrent percept driven robot plans third the system XFRMLEARN capable of learning structured symbolic navigation plans is described in detail *Autonomous Robots Research Advances* Weihua Yang,2008 Autonomous robots are robots which can perform desired tasks in unstructured environments without continuous human guidance Many kinds of robots have some degree of autonomy Different robots can be autonomous in different ways A high degree of autonomy is particularly desirable in fields such as space exploration where communication delays and interruptions are unavoidable Some modern factory robots are autonomous within the strict confines of their direct environment The exact orientation and position of the next object of work and in the more

advanced factories even the type of object and the required task must be determined This can vary unpredictably at least from the robot's point of view One important area of robotics research is to enable the robot to cope with its environment whether this be on land underwater in the air underground or in space This book presents the latest research from around the globe Autonomous Mobile Robots: Control, planning, and architecture S. Sitharama Iyengar, Alberto Elfes, 1991

Robot Programming Cameron Hughes, Tracey Hughes, 2016-05-02 Start programming robots NOW Learn hands on through easy examples visuals and code This is a unique introduction to programming robots to execute tasks autonomously Drawing on years of experience in artificial intelligence and robot programming Cameron and Tracey Hughes introduce the reader to basic concepts of programming robots to execute tasks without the use of remote controls Robot Programming A Guide to Controlling Autonomous Robots takes the reader on an adventure through the eyes of Midamba a lad who has been stranded on a desert island and must find a way to program robots to help him escape In this guide you are presented with practical approaches and techniques to program robot sensors motors and translate your ideas into tasks a robot can execute autonomously These techniques can be used on today's leading robot microcontrollers ARM9 and ARM7 and robot platforms including the wildly popular low cost Arduino platforms LEGO Mindstorms EV3 NXT and Wowee RS Media Robot for your hardware Maker DIY projects Along the way the reader will learn how to Program robot sensors and motors Program a robot arm to perform a task Describe the robot's tasks and environments in a way that a robot can process using robot S T O R I E S Develop a R S V P Robot Scenario Visual Planning used for designing the robot's tasks in an environment Program a robot to deal with the unexpected using robot S P A C E S Program robots safely using S A R A A Safe Autonomous Robot Application Architecture Approach Program robots using Arduino C C and Java languages Use robot programming techniques with LEGO Mindstorms EV3 Arduino and other ARM7 and ARM9 based robots

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